

PF-0057-4 CON

<110> Au-Young, Janice; Cocks, Benjamin G.
Coleman, Roger; Seilhamer, Jeffrey J.
Fisher, Douglas A.

<120> CYCLIC NUCLEOTIDE PHOSPHODIESTERASES

<130> PF-0057-4 CON

<140> To Be Assigned

<141> Herewith

<150> US 09/454,060

<151> 1999-12-02

<150> US 08/974,565

<151> 1997-11-19

<160> 18

<170> PERL Program

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<211> 449

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 156196

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Glu	Leu	Tyr	Ser	Pro	Gln	Phe	Gly	Ala	Lys	Asp	Asp	Asp	Pro	His
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Ala	Asn	Asp	Leu	Val	Gly	Gly	Leu	Met	Ser	Asp	Gly	Leu	Arg	Arg
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Leu	Ser	Gly	Asn	Glu	Tyr	Val	Leu	Ser	Thr	Lys	Asn	Thr	Gln	Met
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Val	Ser	Ser	Asn	Ile	Ile	Thr	Pro	Ile	Ser	Leu	Asp	Asp	Val	Pro
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Pro	Arg	Ile	Ala	Arg	Ala	Met	Glu	Asn	Glu	Glu	Tyr	Trp	Asp	Phe
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Asp	Ile	Phe	Glu	Leu	Glu	Val	Ala	Thr	His	Asn	Arg	Pro	Leu	Ile
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Tyr	Leu	Gly	Leu	Lys	Met	Phe	Ala	Arg	Phe	Gly	Ile	Cys	Glu	Phe
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Glu	Ala	Asn	Tyr	His	Ser	Ser	Asn	Pro	Tyr	His	Asn	Ser	Thr	His
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Ser	Ala	Asp	Val	Leu	His	Ala	Thr	Ala	Tyr	Phe	Leu	Ser	Lys	Glu
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Arg	Ile	Lys	Glu	Thr	Leu	Asp	Pro	Ile	Asp	Glu	Val	Ala	Ala	Leu
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Ile	Ala	Ala	Thr	Ile	His	Asp	Val	Asp	His	Pro	Gly	Arg	Thr	Asn
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Leu	Thr	Thr	Gly	Asp	Asp	Lys	Cys	Asn	Ile	Phe	Lys	Asn	Met	Glu	
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Leu	Ala	Thr	Glu	Met	Thr	Arg	His	Phe	Glu	His	Val	Asn	Lys	Phe	
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Val	Asn	Ser	Ile	Asn	Lys	Pro	Leu	Ala	Thr	Leu	Glu	Glu	Asn	Gly	
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Pro	Glu	Asn	Arg	Thr	Leu	Ile	Lys	Arg	Met	Leu	Ile	Lys	Cys	Ala	
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Asp	Val	Ser	Asn	Pro	Cys	Arg	Pro	Leu	Gln	Tyr	Cys	Ile	Glu	Trp	
				350					355						
Ala	Ala	Arg	Ile	Ser	Glu	Glu	Tyr	Phe	Ser	Gln	Thr	Asp	Glu	Glu	
				365					370						
Lys	Gln	Gln	Gly	Leu	Pro	Val	Val	Met	Pro	Val	Phe	Asp	Arg	Asn	
				380					385						
Thr	Cys	Ser	Ile	Pro	Lys	Ser	Gln	Ile	Ser	Phe	Ile	Asp	Tyr	Phe	
				395					400						
Ile	Thr	Asp	Met	Phe	Asp	Ala	Trp	Asp	Ala	Phe	Val	Asp	Leu	Pro	
				410					415						
Asp	Leu	Met	Gln	His	Leu	Asp	Asn	Asn	Phe	Lys	Tyr	Trp	Lys	Gly	
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 <220>
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 gaaaatatcc gaatgtgttc agtctgacac tcatacagat aatcagacag gcaaacataa 240
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 cagccagaga cgacactctt ccatggcccc gatacattcc atgacaattg aggcgccccat 360
 caccaaggta atcaatatta tcaatgctgc ccaggaaagt agtcccatgc ctgtgacaga 420
 agccctagac cgtgtgctgg aaattctaag aaccactgag ttatattcac cacagtcttg 480
 tgctaaagat gatgatcccc atgccaatga ccttgttggg ggcttaattg ctgatgggtt 540
 gcgaagacta tcagggaatg aatatgttct ttcaacaaaa aacactcaaa tggtttcaag 600
 caatataatc actcccatct cccttgatga tgtcccacca cggatagctc gggccatgga 660
 aaatgaggaa tactgggact ttgatatttt tgaactggag gttgccacc acaataggcc 720
 tttgatttat cttgggtctca aaatgtttgc tcgctttgga atctgtgaat tcttacactg 780
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caccattcat gatgtggag accctgggag aaccaactcc ttcctgtgta atgctggaag 1020
tgagctggcc attttgtaca atgacactgc tgtgctggag agccaccatg cggccttggc 1080
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Lys Xaa Met Met Ile Lys Cys Ala Xaa Xaa Xaa Asn Pro Cys Arg
35 40 45
Pro Leu Asp Leu Cys Ile Glu Trp Ala Gly Arg Ile Ser Glu Glu
50 55 60
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PF-0057-4 CON

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ggncaaacca tgccgaccct tggacctgtg cattgaatgg gctgggagga tctctgagga 180
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Ile Arg Ser Ser Lys Leu Ser Glu Asn Thr Val Ile Val Gly Val
35     40     45
Val Arg Arg Val Asp Arg Glu Glu Leu Ser Val Met Pro Phe Ile
50     55     60
Ser Ala Gly Phe Thr Arg Arg Tyr Val Glu Asn Pro Asn Ile Met
65     70     75
Ala Cys Tyr Asn Glu Leu Leu Gln Leu Glu Phe Gly Glu Val Arg
80     85     90
Ser Gln Leu Lys Leu Arg Ala Cys Asn Ser Val Phe Thr Ala Leu
95     100    105
Glu Asn Ser Glu Asp Ala Ile Glu Ile Thr Ser Glu Asp Arg Phe
110    115    120
Ile Gln Tyr Ala Asn Pro Ala Phe Glu Thr Thr Met Gly Tyr Gln
125    130    135
Ser Gly Glu Leu Ile Gly Lys Glu Leu Gly Glu Val Pro Ile Asn
140    145    150
Glu Lys Lys Ala Asp Leu Leu Asp Thr Ile Asn Ser Cys Ile Arg
155    160    165
Ile Gly Lys Glu Trp Gln Gly Ile Tyr Tyr Ala Lys Lys Lys Asn
170    175    180
Gly Asp Asn Ile Gln Gln Asn Val Lys Ile Ile Pro Val Ile Gly
185    190    195
Gln Gly Gly Lys Ile Arg His Tyr Val Ser Ile Ile Arg Val Cys
200    205    210
Asn Gly Asn Asn Lys Ala Glu Lys Ile Ser Glu Cys Val Gln Ser
215    220    225
Asp Thr Arg Thr Asp Asn Gln Thr Gly Lys His Lys Asp Arg Arg
230    235    240
Lys Gly Ser Leu Asp Val Lys Ala Val Ala Ser Arg Ala Thr Glu
245    250    255
Val Ser Ser Gln Arg Arg His Ser Ser Met Ala Arg Ile His Ser
260    265    270
Met Thr Ile Glu Ala Pro Ile Thr Lys Val Ile Asn Val Ile Asn
275    280    285
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				305					310					315	
Phe	Gly	Ala	Lys	Asp	Asp	Asp	Pro	His	Ala	Asn	Asp	Leu	Val	Gly	
				320					325					330	
Gly	Leu	Met	Ser	Asp	Gly	Leu	Arg	Arg	Leu	Ser	Gly	Asn	Glu	Tyr	
				335					340					345	
Val	Leu	Ser	Thr	Lys	Asn	Thr	Gln	Met	Val	Ser	Ser	Asn	Ile	Ile	
				350					355					360	
Thr	Pro	Ile	Ser	Leu	Asp	Asp	Val	Pro	Pro	Arg	Ile	Ala	Arg	Ala	
				365					370					375	
Met	Glu	Asn	Glu	Glu	Tyr	Trp	Asp	Phe	Asp	Ile	Phe	Glu	Leu	Glu	
				380					385					390	
Ala	Ala	Thr	His	Asn	Arg	Pro	Leu	Ile	Tyr	Leu	Gly	Leu	Lys	Met	
				395					400					405	
Phe	Ala	Arg	Phe	Gly	Ile	Cys	Glu	Phe	Leu	His	Cys	Ser	Glu	Ser	
				410					415					420	
Thr	Leu	Arg	Ser	Trp	Leu	Gln	Ile	Ile	Glu	Ala	Asn	Tyr	His	Ser	
				425					430					435	
Ser	Asn	Pro	Tyr	His	Asn	Ser	Thr	His	Ser	Ala	Asp	Val	Leu	His	
				440					445					450	
Ala	Thr	Ala	Tyr	Phe	Leu	Ser	Lys	Glu	Arg	Ile	Lys	Glu	Thr	Leu	
				455					460					465	
Asp	Pro	Ile	Asp	Glu	Val	Ala	Ala	Leu	Ile	Ala	Ala	Thr	Ile	His	
				470					475					480	
Asp	Val	Asp	His	Pro	Gly	Arg	Thr	Asn	Ser	Phe	Leu	Cys	Asn	Ala	
				485					490					495	
Gly	Ser	Glu	Leu	Ala	Ile	Leu	Tyr	Asn	Asp	Thr	Ala	Val	Leu	Glu	
				500					505					510	
Ser	His	His	Ala	Ala	Leu	Ala	Phe	Gln	Leu	Thr	Thr	Gly	Asp	Asp	
				515					520					525	
Lys	Cys	Asn	Ile	Phe	Lys	Asn	Met	Glu	Arg	Asn	Asp	Tyr	Arg	Thr	
				530					535					540	
Leu	Arg	Gln	Gly	Ile	Ile	Asp	Met	Val	Leu	Ala	Thr	Glu	Met	Thr	
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Lys	His	Phe	Glu	His	Val	Asn	Lys	Phe	Val	Asn	Ser	Ile	Asn	Lys	
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Pro	Leu	Ala	Thr	Leu	Glu	Glu	Asn	Gly	Glu	Thr	Asp	Lys	Asn	Gln	
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Glu	Val	Ile	Asn	Thr	Met	Leu	Arg	Thr	Pro	Glu	Asn	Arg	Thr	Leu	
				590					595					600	
Ile	Lys	Arg	Met	Leu	Ile	Lys	Cys	Ala	Asp	Val	Ser	Asn	Pro	Cys	
				605					610					615	
Arg	Pro	Leu	Gln	Tyr	Cys	Ile	Glu	Trp	Ala	Ala	Arg	Ile	Ser	Glu	
				620					625					630	
Glu	Tyr	Phe	Ser	Gln	Thr	Asp	Glu	Glu	Lys	Gln	Gln	Gly	Leu	Pro	
				635					640					645	
Val	Val	Met	Pro	Val	Phe	Asp	Arg	Asn	Thr	Cys	Ser	Ile	Pro	Lys	
				650					655					660	
Ser	Gln	Ile	Ser	Phe	Ile	Asp	Tyr	Phe	Ile	Thr	Asp	Met	Phe	Asp	
				665					670					675	
Ala	Trp	Asp	Ala	Phe	Val	Asp	Leu	Pro	Asp	Leu	Met	Gln	His	Leu	
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Asp	Asn	Asn	Phe	Lys	Tyr	Trp	Lys	Gly	Leu	Asp	Glu	Met	Lys	Leu	
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<211> 3396

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 156196

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<210> 7
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 <223> Incyte ID No: 464655

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Ser	Ile	Arg	Ala	Thr	Asn	Pro	Ser	Glu	His	Thr	Val	Ile	Leu	Ala
				35					40					45
Val	Val	Ser	Arg	Val	Ser	Asp	Asp	His	Glu	Glu	Ala	Ser	Val	Leu
				50					55					60
Pro	Leu	Leu	His	Ala	Gly	Phe	Asn	Arg	Arg	Phe	Met	Glu	Asn	Ser
				65					70					75
Ser	Ile	Ile	Ala	Cys	Tyr	Asn	Glu	Leu	Ile	Gln	Ile	Glu	His	Gly
				80					85					90
Glu	Val	Arg	Ser	Gln	Phe	Lys	Leu	Arg	Ala	Cys	Asn	Ser	Val	Phe
				95					100					105
Thr	Ala	Leu	Asp	His	Cys	His	Glu	Ala	Ile	Glu	Ile	Thr	Ser	Asp
				110					115					120
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Cys	Ser	Gly	Thr	Ser	Gly	Asp	Asn	Ser	Ala	Ile	Ile	Ser	Ala	Pro	
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